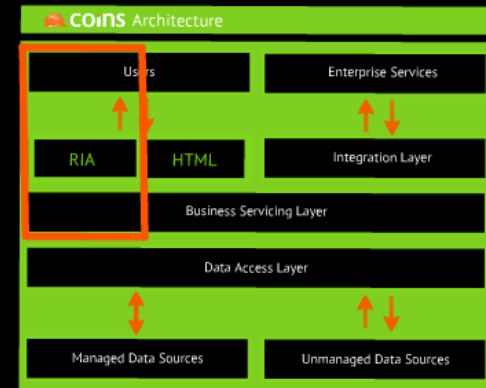




**PROGRESS
EXCHANGE** 2013
DISCOVER. DEVELOP. DELIVER.

Using a JavaScript Framework to Create a Modern, Intuitive Interface





PROGRESS
EXCHANGE 2013

DISCOVER. DEVELOP. DELIVER.

Using a JavaScript Framework to Create a Modern, Intuitive Interface



PROGRESS
EXCHANGE²⁰¹³

DISCOVER. DEVELOP. DELIVER.

Using a JavaScript Framework to Create a Modern, Intuitive Interface



The Construction Industry's Choice
(for ERP)



• 400 Clients

• 60,000 Users

• 60 Developers in 6 Countries

```
dhtmlxtreegrid.js : <No selected symbol>
112 dhtmlXGridObject.prototype._getOpenLength=function(id,start){
113     var z=this._h2.get[id].childs;
114     start+=z.length;
115     for (var i=0; i<z.length; i++)
116         if (z[i].childs.length && z[i].state=="minus")
117             start=this._getOpenLength(z[i].id,0);
118     return start;
119 }
120 }
121 /**
122  * @desc: close row of treegrid (removes kids from dom)
123  * @param: curRow - row to process kids of
124  * @type: private
125  */
126 dhtmlXGridObject.prototype.collapseKids=function(curRow){
127     var r=this._h2.get[curRow.id];
128     if (r.state=="minus") return;
129     if (!this.callEvent("onOpenStart",[curRow.id,1])) return;
130
131     var start = curRow.rowIndex;
132     //why Safari doesn't support standards?
133     if (start<0) start=this.rowsCol._dhtmlx_find(curRow)+1;
134
135     this._h2.change(r.id,"state","plus");
136     this._updateGRState(r);
137
138     if (this._srand || this.pagingOn){
139         this._h2_to_buff();
140         this._renderSort();
141     } else {
142         var len=this._getOpenLength(this.rowsCol[start-1].id,0);
143         for (var i=0; i<len; i++)
144             this.rowsCol[start+i].parentNode.removeChild(this.rowsCol[start+i]);
145         this.rowsCol.splice(start, len);
146     }
147
148     //if (this._cssEven && !this._cssSP)
149     this.callEvent("onGridReconstructed",[1]);
150
151     this.setSizes();
152     this._h2_to_buff();
153     this.callEvent("onOpenEnd",[curRow.id,-1]);
154 }
155
156
157
158
159
160
161
162 function myJavascript()
163 {
164     is super
165     cool
166 }
167
168
169
170
171
172
173
174 dhtmlXGridObject.prototype._massInsert=function(r,start,ind,skip){
175     var anew=[];
176     var par=(!_isKHTML7this.obj)?this.obj.rows[0].parentNode
177     this._h2_to_buff();
178     if (this._srand || this.pagingOn) return this._renderSort();
179     var len=this._getOpenLength(r.id,0);
180     for(var i=0;i<len;i++){
181         var ra=this.render_row(ind+i);
182         if (start)
183             start.parentNode.insertBefore(ra, start);
184         else
185             par.appendChild(ra);
186         anew.push(ra)
187     }
188     this.rowsCol=dhtmlxArray(this.rowsCol.slice(0,ind).concat(anew).concat(this.rowsCol.slice(ind)));
189
190     return r.childs.length+anew.length;
191 }
```



**PROGRESS
EXCHANGE** 2013

DISCOVER. DEVELOP. DELIVER.

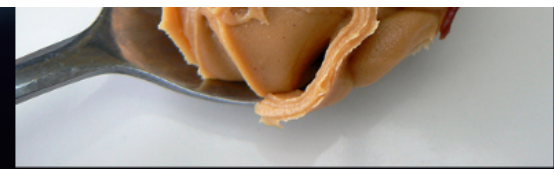
```
111 |
112 | dhtmlXGridObject.prototype._getOpenLenght=function(id,start){
113 |
114 |     var z=this._h2.get[id].childs;
115 |     start+=z.length;
116 |     for (var i=0; i<z.length; i++)
117 |         if (z[i].childs.length && z[i].state=='minus')
118 |             start+=this._getOpenLenght(z[i].id,0);
119 |     return start;
120 | }
121 | /**
122 | * @desc: close row of treegrid (removes kids from dom)
123 | * @param: curRow - row to process kids of
124 | * @type: private
125 | */
126 | dhtmlXGridObject.prototype.collapseKids=function(curRow){
127 |     var r=this._h2.get[curRow.idd];
128 |     if (r.state!="minus") return;
129 |     if (!this.callEvent("onOpenStart",[curRow.idd,1])) return;
130 |
131 |     var start = curRow.rowIndex;
132 |     //why Safari doesn't support standards?
133 |     if (start<0) start=this.rowsCol._dhx_find(curRow)+1;
134 |
135 |     this._h2.change(r.id,"state","plus");
136 |     this._updateTGRState(r);
137 |
138 |     if (this._srnd || this.pagingOn){
139 |         this._h2_to_buff();
140 |         this._renderSort();
141 |     } else {
142 |         var len=this._getOpenLenght(this.rowsCol[start-1].idd,0);
143 |         for (var i=0; i<len; i++)
144 |             this.rowsCol[start+i].parentNode.removeChild(this.rowsCol[start+i]);
145 |         this.rowsCol.splice(start, len);
146 |     }
147 |
148 |     //if (this._cssEven && !this._cssSP)
149 |     this.callEvent("onGridReconstructed", []);
150 |
151 |     this.setSizes();
152 |     this._h2_to_buff();
153 |     this.callEvent("onOpenEnd",[curRow.idd,-1]);
154 | }
155 |
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161 |
162 | function myJavascript()
163 | {
164 |
165 | is super
166 | cool
167 |
168 |
169 | }
170 |
171 |
172 |
173 |
174 | dhtmlXGridObject.prototype._massInsert=function(r,start,ind,skip){
175 |     var anew=[];
176 |     var par=(this.isKHTML?this.obj:this.obj.rows[0].parentNode)
177 |     this._h2_to_buff();
178 |     if (this._srnd || this.pagingOn) return this._renderSort();
179 |     var len=this._getOpenLenght(r.id,0);
180 |     for(var i=0;i<len;i++){
181 |         var ra=this.render_row(ind+i);
182 |         if (start)
183 |             start.parentNode.insertBefore(ra,start);
184 |         else
185 |             par.appendChild(ra);
186 |         anew.push(ra)
187 |     }
188 |     this.rowsCol=dhtmlXArray(this.rowsCol.slice(0,ind).concat(anew).concat(this.rowsCol.slice(ind)));
189 |
190 |     return r.childs.length+anew.length;

```

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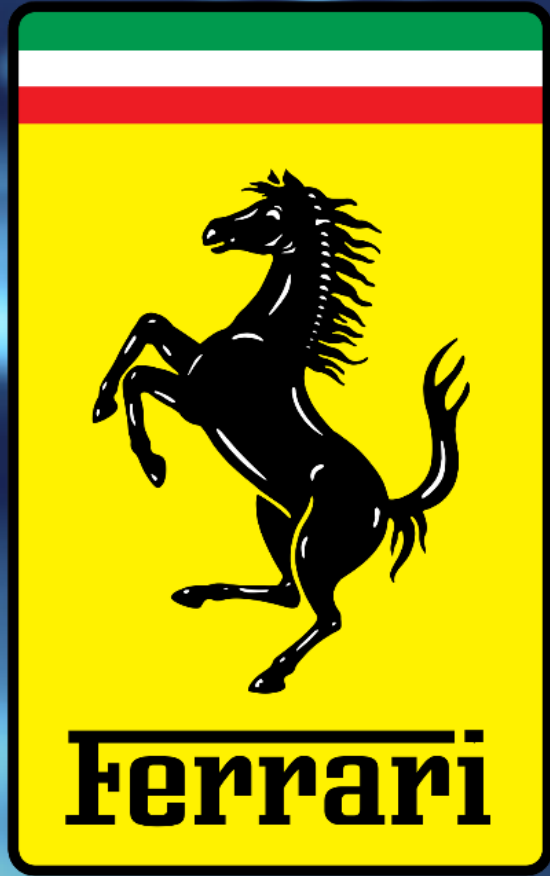
```
function myJavascript()  
{  
  
  is super  
  cool  
  
}
```

```
dhtmlXGridObject.prototype._massInsert=f  
  var anew=[1]
```

The CSS+HTML+JS combo is like..





+

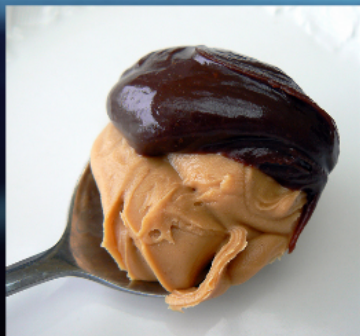




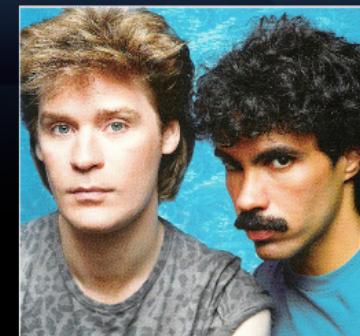




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The CSS+HTML+JS combo is like..



DISCOVER. DEVELOP. DELIVER.



Why is that combo so great?

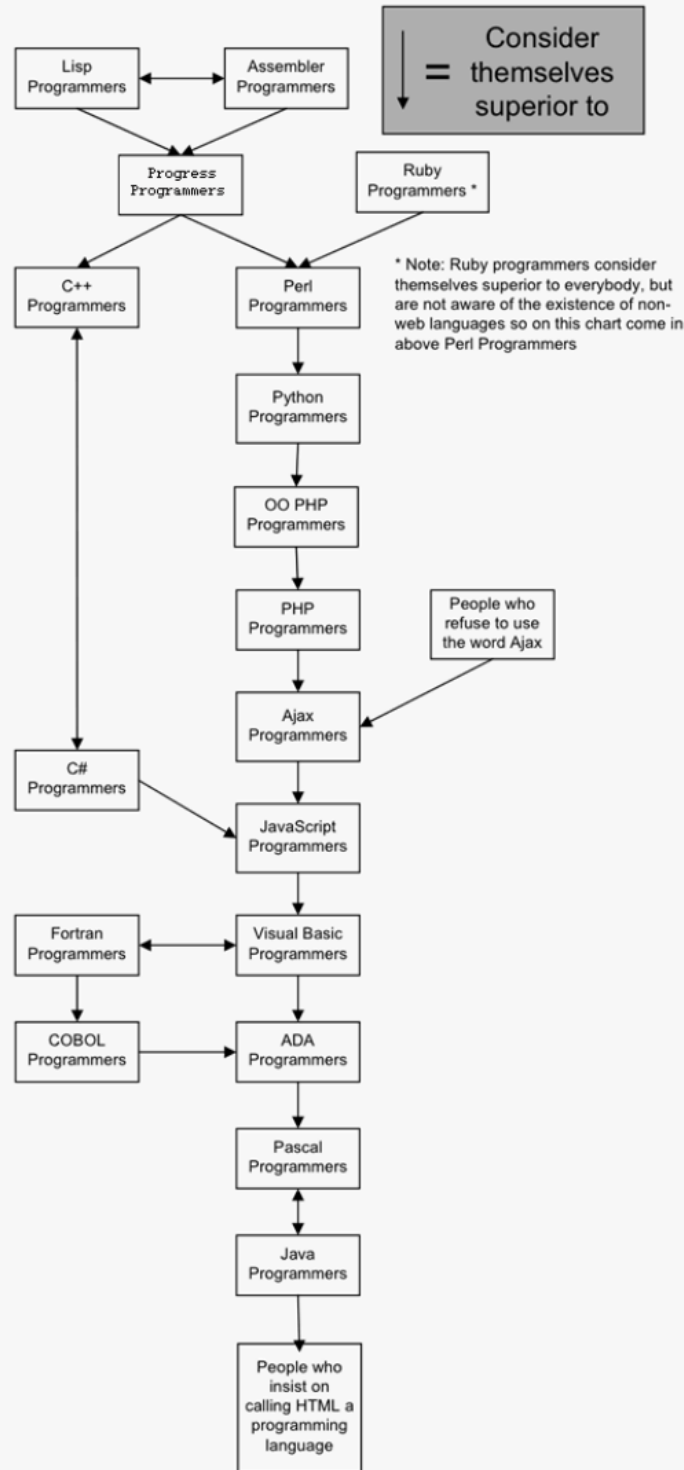
JavaScript Frameworks

Native to Browser

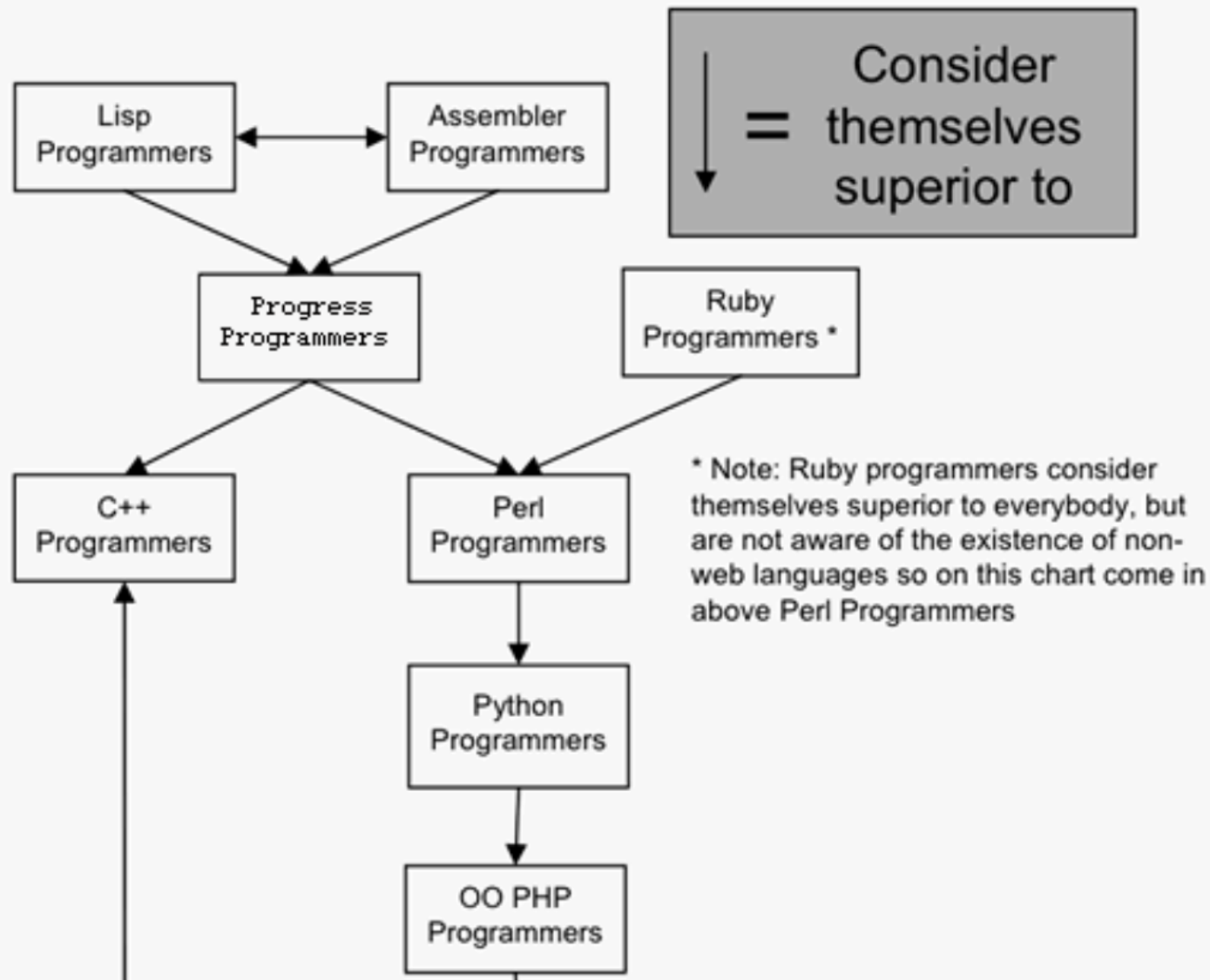
Rich Internet Applications

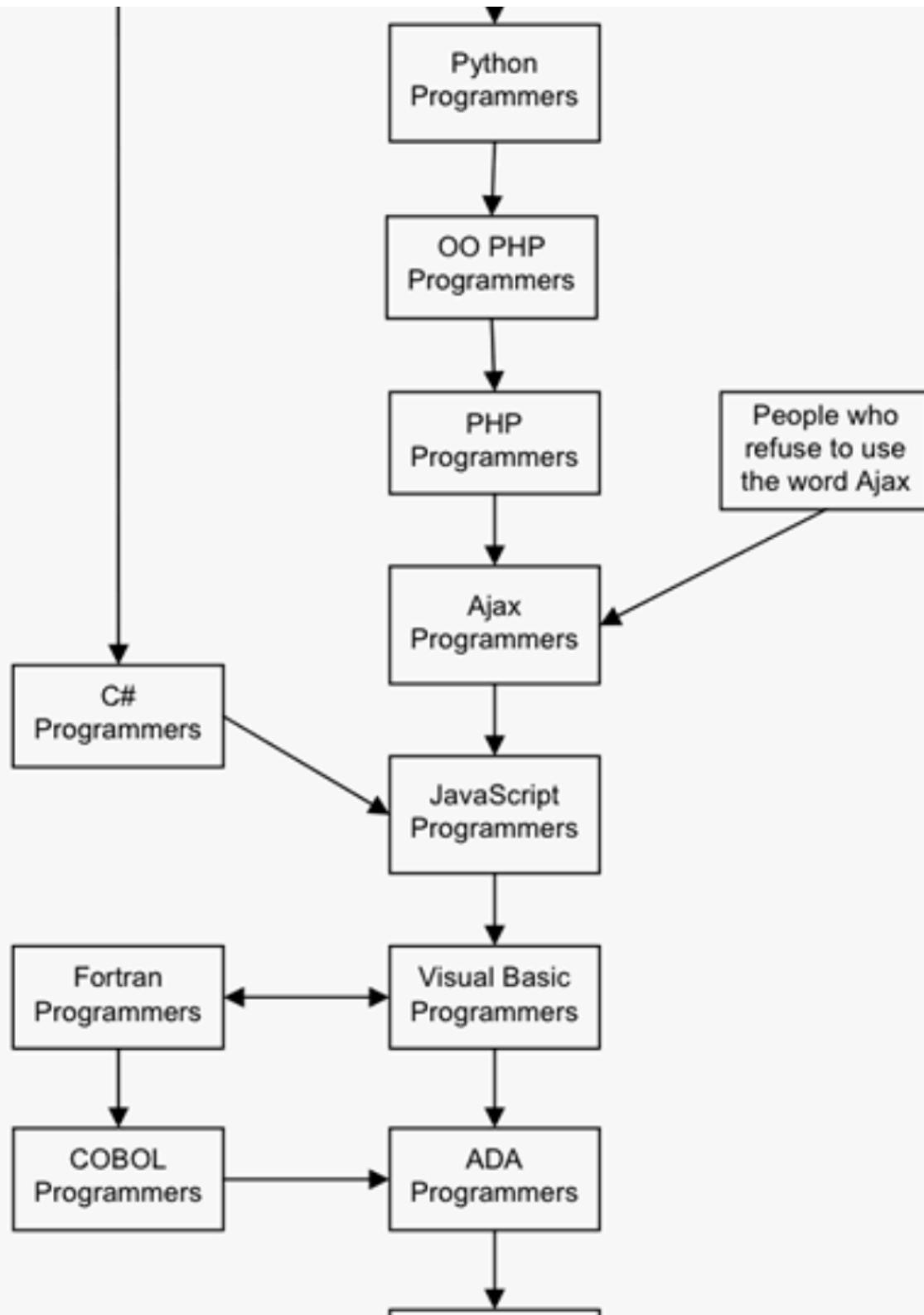
Nay Sayers

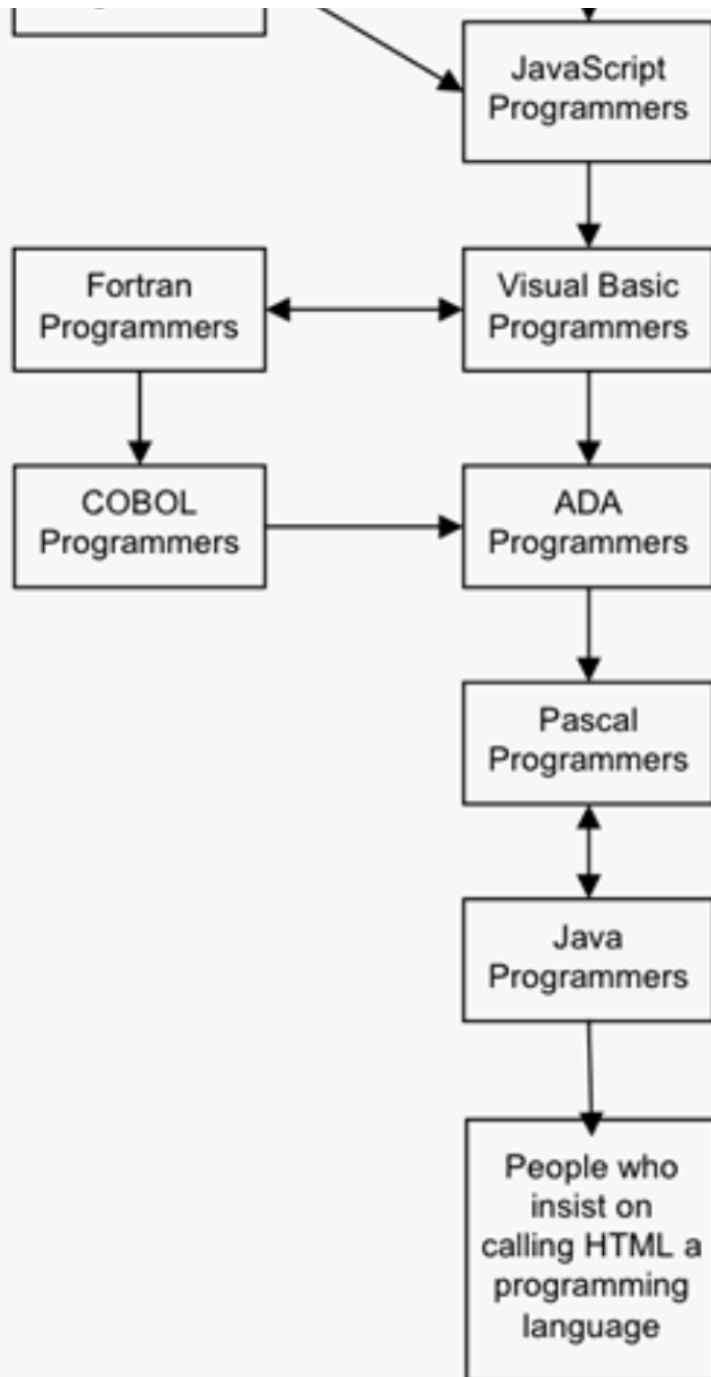
The Programmer Hierarchy



The Programmer Hierarchy







"JavaScript is s...fiddly"

"Browser implementation of HTML standards.."

LOL

JavaScript Frameworks!

midori

DHTMLX

DOJO

Yui

MooTools

EXT JS

SmartClient

Webix

Google Web Toolkit

Pyjamas

Wakanda

Web Atoms

JavaScript Frameworks are Amazing!

- Great looking, robust UI components

JavaScript Frameworks are Amazing!

- Great looking, robust UI components
- Usable Rich Interfaces not Possible 5 years ago
- Complexity Abstracted

JavaScript Frameworks are Amazing!

- Great looking, robust UI components
- Usable Rich Interfaces not Possible 5 years ago
- Complexity Abstracted
- Develop in hours not days

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- Develop in hours not days

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- Complexity Abstracted
- Develop in hours not days

JavaScript Frameworks are Amazing!

- Great looking, robust UI components
- Usable Rich Interfaces not Possible 5 years ago
- Complexity Abstracted
- Develop in hours not days

DEMO





The logo features the letters 'DHX' in a large, bold, sans-serif font. The 'D' and 'H' are white with a slight gradient, while the 'X' is a vibrant cyan. Below the letters is a thick white horizontal bar. Underneath the bar, the letters 'D H T M L X' are spaced out in a smaller, white, sans-serif font.

D H X

D H T M L X

- Enterprise class
- Custom development
- Blue Chip clients
- Great help and support



[Tree](#)



[Grid](#)



[TreeGrid](#)



[Tabbar](#)



[Menu](#)



[Layout](#)



[Windows](#)



[Accordion](#)



[Toolbar](#)



[Combo](#)



[Calendar](#)



[DataView](#)



[Form](#)



[Chart](#)



[ColorPicker](#)



[Slider](#)



[Ajax](#)



[Editor](#)



[DataStore](#)



[Message](#)



[Popup](#)

Countries



Name: Argentina
Area: 2,736,690 sq km
Capital: Buenos Aires
Language: English, French, German, Italian, Spanish



Name: Switzerland
Area: 39,770 sq km
Capital: Bern
Language: French, German, Italian, Romansch



Name: Turkey
Area: 770,760 sq km
Capital: Ankara
Language: Arabic, Turkish, Kurdish



Name: United Kingdom
Area: 241,590 sq km
Capital: London
Language: English, Welsh, Scottish



Name: Spain
Area: 499,542 sq km
Capital: Madrid
Language: Catalan, Spanish, Basque, Galician



Name: Chile
Area: 748,800 sq km
Capital: Santiago
Language: Spanish

Map

Cities

Economic



Description

By the time of Queen Victoria's death in 1901, other nations, including the United States and Germany, had developed their own industries; the United Kingdom's comparative economic advantage had lessened, and the ambitions of its rivals had grown. The losses and destruction of World War I, the depression of the 1930s, and decades of relatively slow growth eroded the United Kingdom's preeminent international position of the previous century.

- Inga K. (2)
- Inbox
- Personal
- Receipts
- Travel
- Work
- [Gmail]

	From	To	Subject	Date	KB
	DHTMLX Sales Department	inga.kravtsova	Fwd: Evaluate DHTMLX Designer	Tu. 30. Aug '11 12:11:06	7
	Paul Lazarev	inga.kravtsova	dhtmlxSuite demo apps	Tu. 30. Aug '11 12:04:46	82
	DHTMLX Team	Inga.kravtsova	What's new in DHTMLX 3.0	Tu. 30. Aug '11 12:00:28	8

2 unread mails

To: Inga.k
From: DHT

Visual

DHTMLX 3
friendly en
form elem

Data St

August 2011						
Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
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29	30	31	1	2	3	4
5	6	7	8	9	10	11

Compose Mail ? □ ×

Send mail Save as draft Templates... 0 Attachments...

Sender: "Inga Kravtsova" <...> plain text disposition notification do not save this time

To: "DHTMLX Team"

Cc:

Subject: Re: What's new in DHTMLX 3.0

Font family Font size **A** **B** *I* U ABC ab ↶ ↷

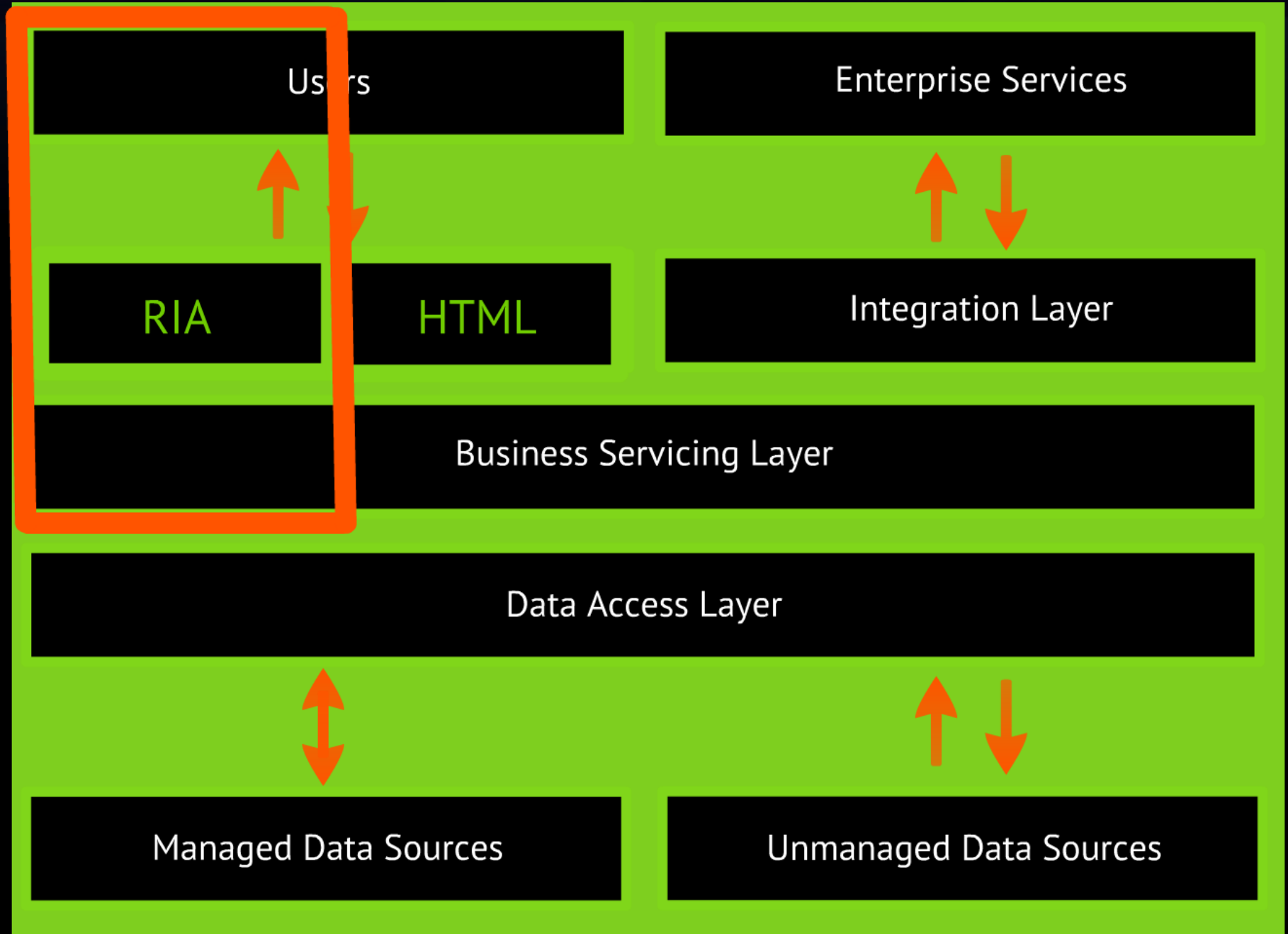
Hi!

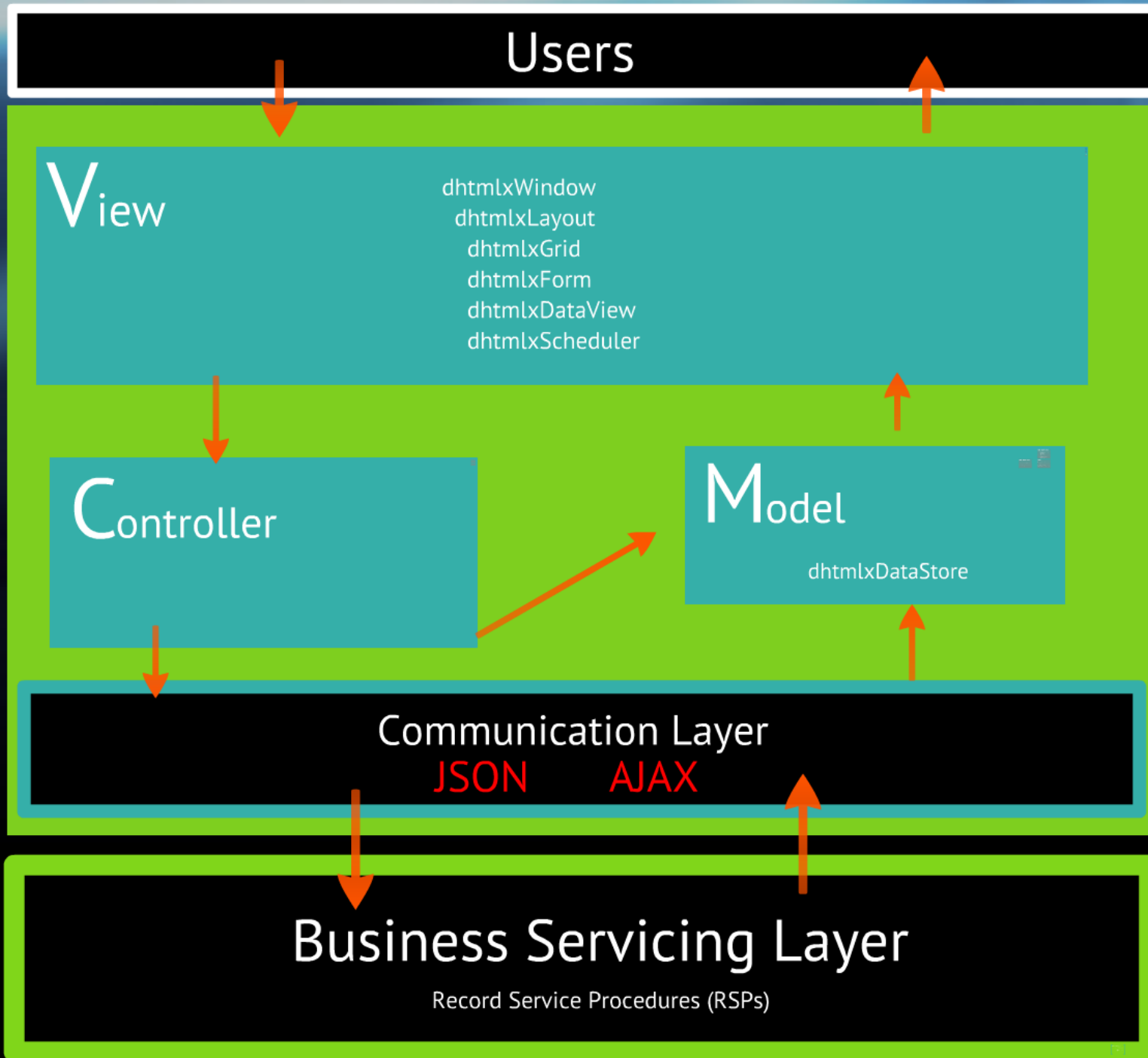
DHTMLX Team <dhtmlx@gmail.com> schrieb am 2011 Aug. 30, 12:00:28:

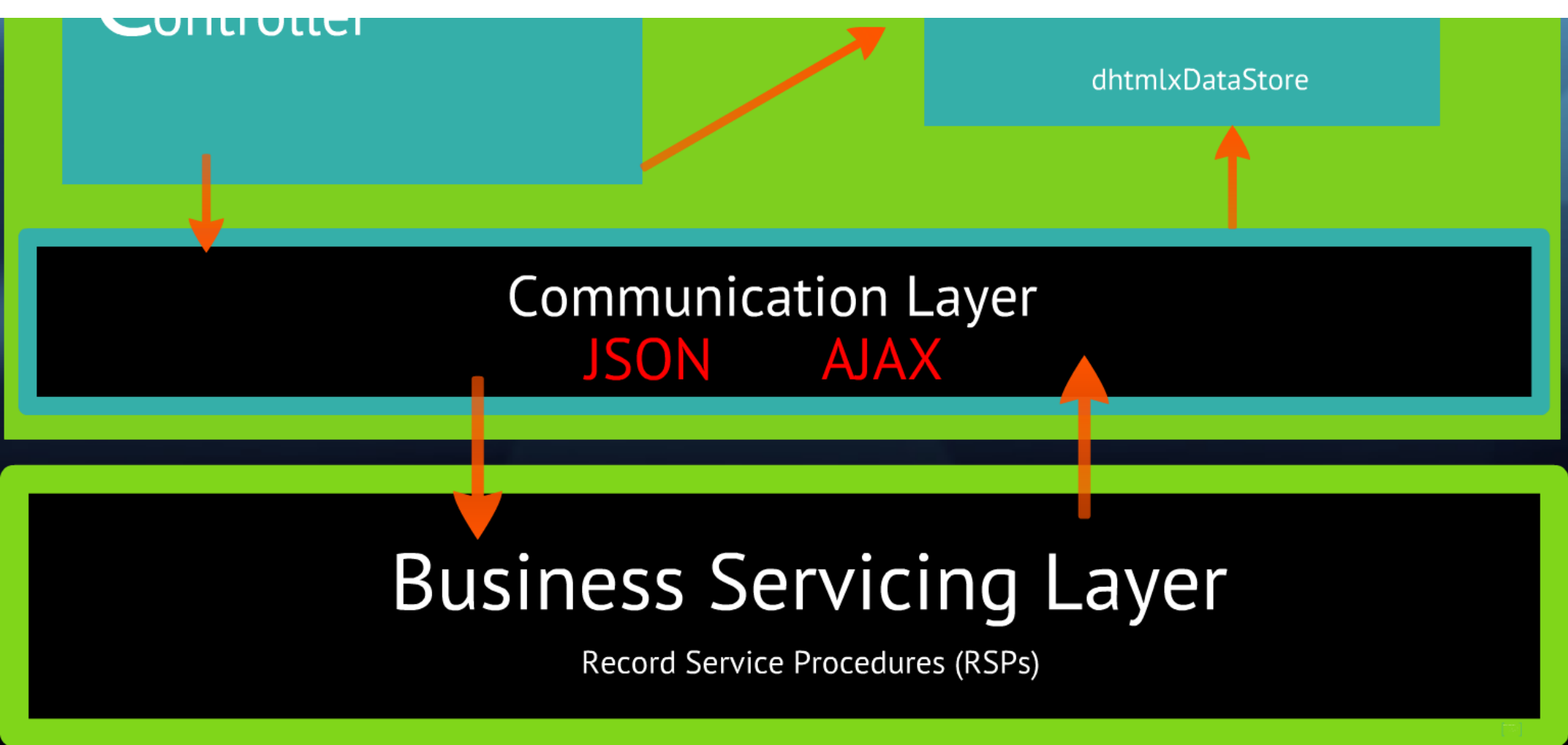
Visual Designer with Form Builder

DHTMLX 3.0 comes with a Visual Designer tool that allows you to build web application interface in a simple, user-friendly environment. The built-in Form Builder simplifies the creation of web forms, so you can easily include necessary form elements in your form

coins Architecture



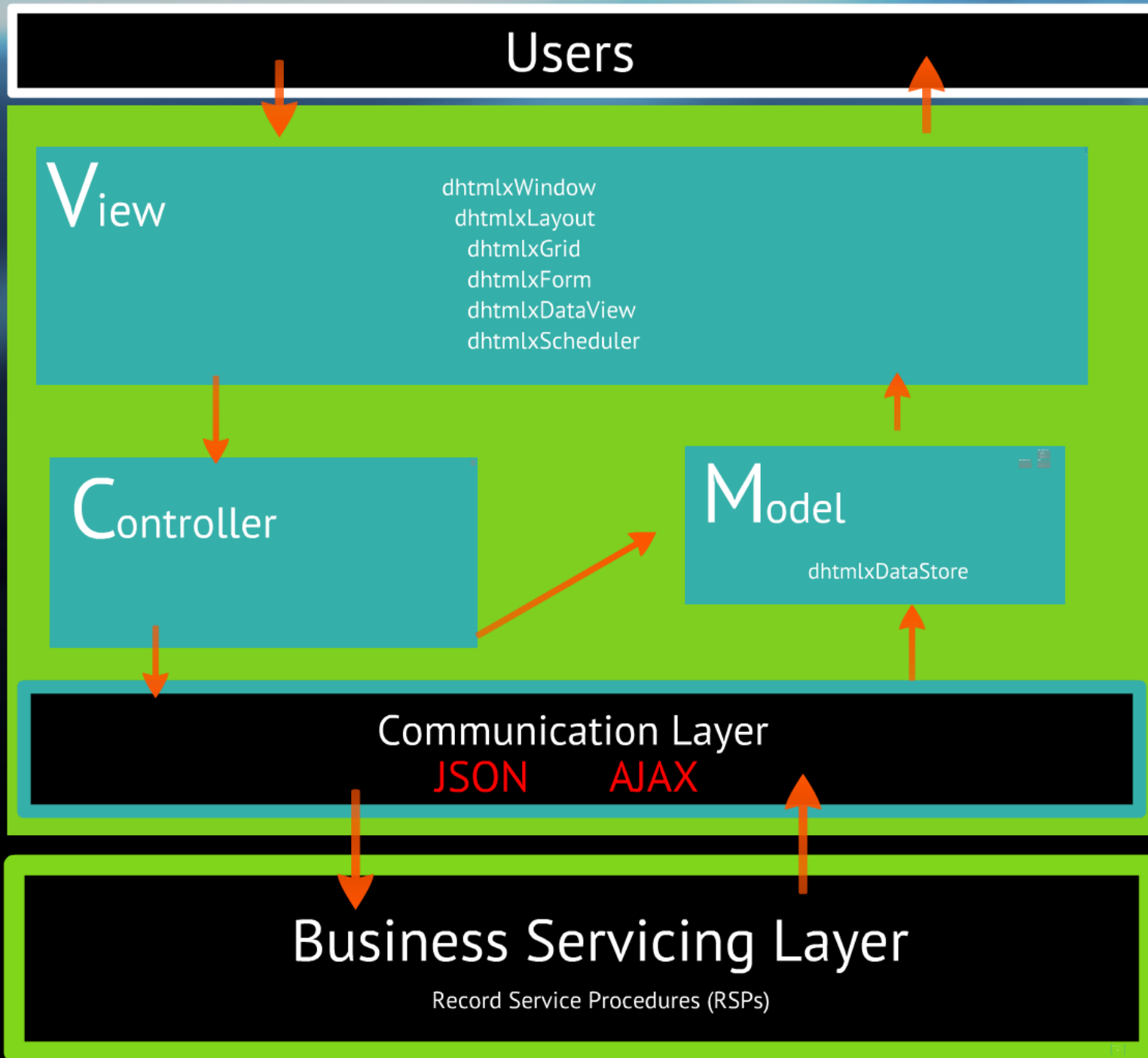




Business Servicing Layer:

 **coins** Record Service Procedures (RSPs)

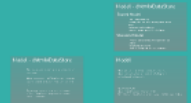
- Progress OpenEdge ABL Layer
- Business Rules
- Controls CRUD on DB





Model

dhtmlxDataStore



Model - dhtmlxDataStore

- Has no graphical representation and used just to store data.
- We can compare dhtmlXDataStore with database table or view. UI components can be filled from it.
- You also can establish relationships between different DataStores like you can do between tables in database.

Model - dhtmlxDataStore

Shared Model

- Local storage (browser)
- Readonly data, available for every control on the page
- Incremental read mechanism
- Seamless integration to DHTMLX Controls

Standard Model

- RW data to be used by user via representation controls
- On demand data refresh
- Seamless integration to DHTMLX Controls

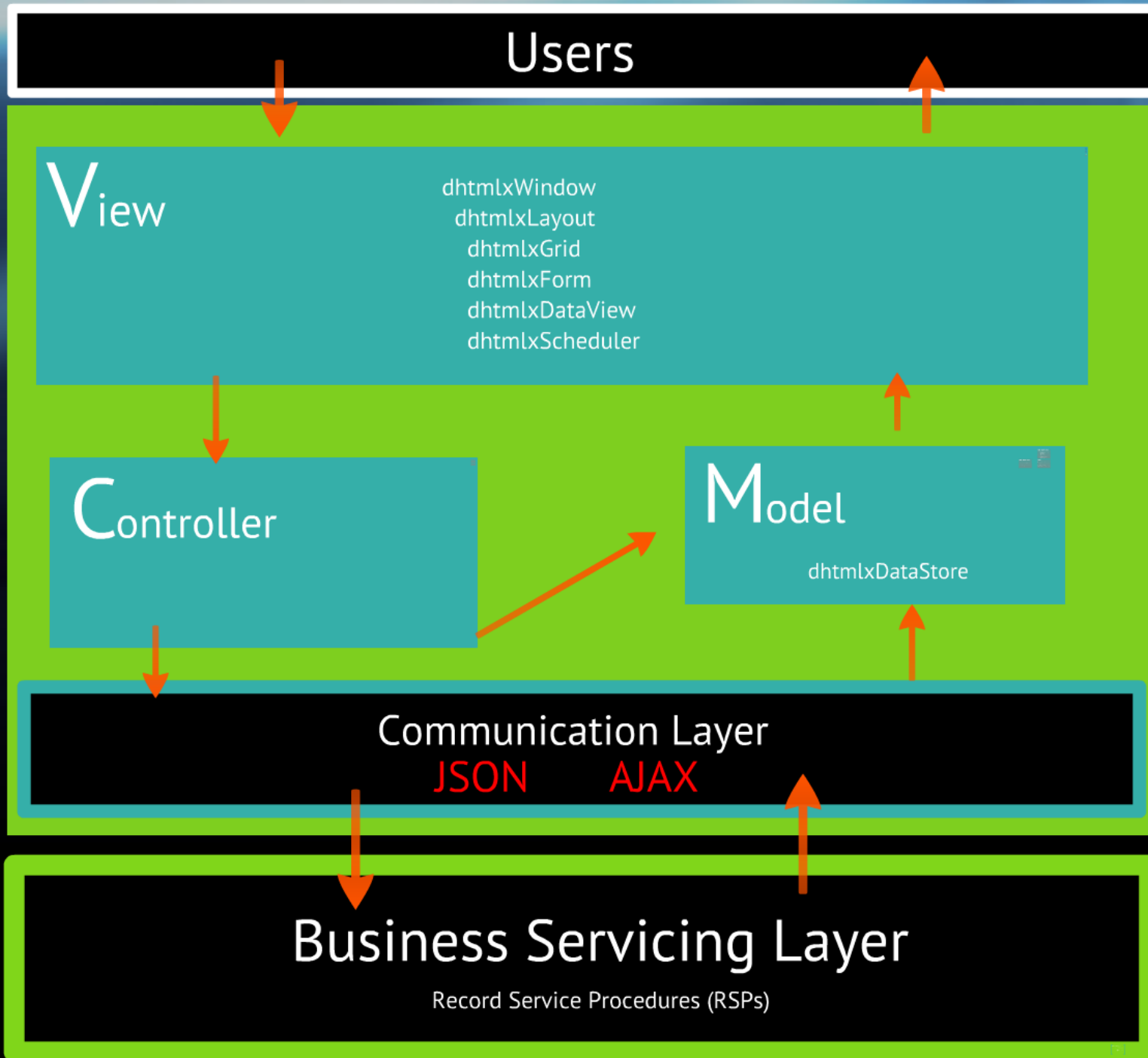
Model

Model can be initialized with query and field list.
Model provides developer hooks for CRUD actions
(beforeSave/afterSave etc).

Data Flow (CRUD):

Model -> AJAX request -> Server -> RSP

RSP -> Server -> AJAX response with data in JSON format -> Model



The image features a background with horizontal bands of color: a top green band, a middle teal band, a bottom green band, and a thin bottom teal band. Two orange arrows point downwards. The first arrow starts in the top green band and points to the teal band. The second arrow starts in the bottom green band and points to the bottom teal band. The word 'Controller' is written in white in the teal band.

Controller

Controller

Controller provides ability to implement custom actions:

init:

```
myController.doSomething1() = function{...};  
myController.doSomething2() = function{...};  
myController.doSomething3() = function{...};  
myController.doSomething4() = function{...};
```

use:

```
myController.action(myView.getActionFromUserGesture());
```

Controller provides ability to add handlers for data change/validation/retrieval/defaulting.

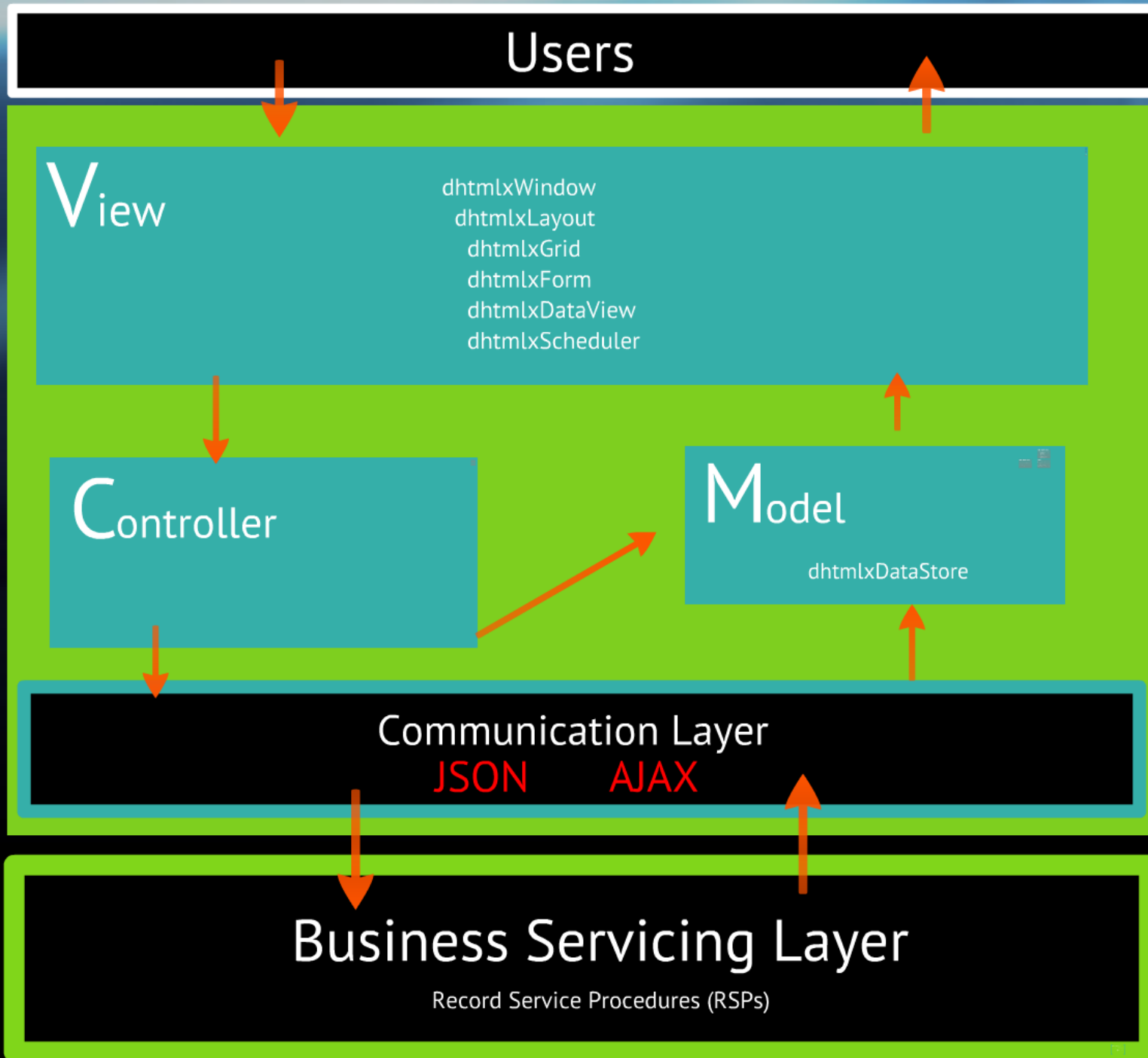
Controller holds references parent/child controls (master-detail)

Controller

Data Flow (Validation/Lookups/etc):

Controller -> AJAX request -> Server -> RSP

RSP -> Server -> AJAX response with data in JSON format -> Controller



Users

The diagram illustrates the MVC (Model-View-Controller) architecture. It is divided into four horizontal layers. At the top is a black bar labeled 'Users'. Below it is a green bar. The next layer is a teal bar labeled 'View', which contains a list of classes: dhtmlxWindow, dhtmlxLayout, dhtmlxGrid, dhtmlxForm, dhtmlxDataView, and dhtmlxScheduler. Below the View layer is another green bar. At the bottom are two teal boxes: 'Controller' on the left and 'Model' on the right. The Model box contains the class dhtmlxDataStore. Orange arrows indicate the flow of data: a downward arrow from Users to View, an upward arrow from View to Users, a downward arrow from View to Controller, an upward arrow from Controller to View, an upward arrow from Model to View, and an upward arrow from Model to Controller.

View

dhtmlxWindow
dhtmlxLayout
dhtmlxGrid
dhtmlxForm
dhtmlxDataView
dhtmlxScheduler

Controller

Model

dhtmlxDataStore

View

dhtmlxWindow

The screenshot displays a web application interface for scheduling service orders. The interface is divided into several sections:

- Service Orders (Sidebar):** A list of service orders with details such as order number, location, type, and status. Examples include:
 - Zimbrick Buick:** Order 20001000 - NEW, UNITS IS MAKING A BAD NOISE. Type: TN, Price: \$ 0.00 / 0.00 / 0.00.
 - Oak Park Library:** Order 30001000 - NEW, No Cooling in the Stacks, No Air. Type: TN, Price: \$ 0.00 / 1.00 / 0.00.
 - Leica:** Order 30001001 - NEW, Planned Maintenance. Price: \$ 10.00 / 0.00 / 10.00.
 - Dive Designs:** Order 30001002 - NEW, Stuffy in dressing rooms. Type: TN, Price: \$ 2.00 / 0.00 / 2.00.
 - San Diego Automobile Museum:** Order 30001003 - NEW, Please check air handler for from... Type: TN, Price: \$ 0.00 / 0.00 / 0.00.
 - Leica:** Order 30001004 - NEW, Hoisting with Stan about pendin... Type: TN, Price: \$ 0.00 / 0.00 / 0.00.
 - San Diego Automobile Museum:** Order 30001005 - NEW, Please change requested. Type: TN, Price: \$ 0.00 / 0.00 / 0.00.
 - San Diego Automobile Museum:** Order 30001006 - NEW, Please change requested. Type: TN, Price: \$ 0.00 / 0.00 / 0.00.
- Weekly Scheduling Board (Main):** A grid showing a weekly schedule from 15 Sep 2013 to 21 Sep 2013. The grid has columns for each day and rows for different service orders. The grid shows various service orders assigned to different days and times. For example, on Sep 15, there are assignments for "Dive Designs" and "Oak Park Library".
- Technician Details (Center):** A panel showing details for a selected technician, including name, phone, mobile, and email. The technician shown is **Alan R Ford**, with phone 518-242-7200 and mobile 518-242-7200.

View

dhtmlxWindow
dhtmlxLayout

The screenshot displays a web application interface for scheduling. The browser address bar shows the URL: `usdemo.shaker.com/cgi-bin/usdem1.cgi/wouria01.p7TopMenu=925WSL&co=1&pjob=20101&pvphase=&pvhidemenu=&MainArea=9WSISD&treetarget=_blank`. The page title is "USDEM1 - Schedule & Dis...". The interface features a sidebar on the left with a list of service orders, each with details like "Zimbrick Buick", "Oak Park Library", "Leica", "Diva Designs", "San Diego Automobile Museum", and "Leica". The main area is a "Weekly Scheduling Board" for the period "15 Sep 2013 - 21 Sep 2013". It contains a grid with columns for each day of the week and rows for different service orders. The grid cells contain the names of the service orders assigned to that day. For example, "Oak Park Library" is assigned to Thursday, Sep 19, and "Leica" is assigned to Friday, Sep 20. An orange arrow points from the text "dhtmlxWindow" to the sidebar, and another orange arrow points from "dhtmlxLayout" to the main grid.

View

dhtmlxWindow

dhtmlxLayout

dhtmlxDataView

dhtmlxScheduler

The screenshot displays a web application interface for scheduling. On the left, a 'Service Orders' panel lists various tasks such as 'Zimbrick Buick', 'Oak Park Library', and 'San Diego Automobile Museum'. Each order includes details like type, time, and status. On the right, a 'Weekly Scheduling Board' shows a grid of days from Sunday to Saturday. Each cell in the grid contains the name of the technician assigned to that day and time slot. Below the grid, a list of technicians is provided, including their names, phone numbers, mobile numbers, and email addresses. Orange arrows point from the text labels on the left to the corresponding UI elements in the screenshot.

Day	Sun, Sep 15	Mon, Sep 16	Tue, Sep 17	Wed, Sep 18	Thu, Sep 19	Fri, Sep 20	Sat, Sep 21
Abe HJ Abraham		Dive Designs	Oak Park Library	Leica	Zimbrick Buick		
Alan R Ford		Benihana of Tokyo	Oak Park Library	Dive Designs	Dive Designs	Oak Park Library	
Albert W Boller		Benihana of Tokyo	Dive Designs	Benihana of Tokyo	San Diego Automobile	San Diego Automobile	
Andrew J Alton		Benihana of Tokyo	Dive Designs	Leica	Oak Park Library	Oak Park Library	
Arthur Saul Garcia		San Diego Automobile	Oak Park Library	Leica	Leica	Benihana of Tokyo	
Barry HF Fleher		Leica	Leica	San Diego Automobile	Dive Designs	San Diego Automobile	Benihana of Tokyo
Brian L Celis		Leica	Los Angeles Times	Benihana of Tokyo	San Diego Automobile	Benihana of Tokyo	
Brian HJ Drumm		San Diego Automobile	Oak Park Library	Oak Park Library	Benihana of Tokyo	Benihana of Tokyo	

View

dhtmlxWindow
dhtmlxLayout
dhtmlxGrid
dhtmlxForm

The screenshot shows a web application interface for service orders and scheduling. The interface is divided into several sections:

- Service Orders (Sidebar):** A list of service orders with details such as customer name, type, and status. The selected order is "30001002 - NEW" for "Divva Designs".
- Service Order Details (Main Panel):** A form displaying the selected service order's details, including the technician's name (ANDALL / Andrew J Allen), customer information, and dispatch date (09/17/2013).
- Asset Table:** A table listing assets with columns for ASSET, ASSET TYPE, DESCRIPTION, PROBLEM CODE, and RESOLUTION CODE. The selected asset is "PKG3" (TRANE PACKAGE UNIT DRESSING ROOM).
- Problem Description:** A form field for describing the problem, with the text "Troubleshoot reported problem".

Orange arrows indicate the mapping of the text labels to the UI elements:

- dhtmlxWindow:** Points to the main service order details form.
- dhtmlxLayout:** Points to the sidebar containing the list of service orders.
- dhtmlxGrid:** Points to the asset table.
- dhtmlxForm:** Points to the problem description field.

View

dhtmlxGrid

CUSTOMER ACCOUNT	CUSTOMER NAME	LOCATION PHONE	CUSTOMER PHONE	LOCATION NAME	LOCATION ADDRESS	LOCATION DOMAINS	LOCATION CLOSED	ON HOLD	SERVICE DEPARTMENT
MAN01	Academy Supply	212-249-8606	212-789-8939	Academy Management	270 East Charles Street Rd	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
AS-1001	Aerospac Corporation	818-889-1245	818-889-1245	Aerospac Corporation	325 16th Avenue Los Angeles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
AP1001	Acad. Design Builders	325-489-1026	325-489-1026	APTX Design Builders	6200 White Oakwood Lane #	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
BD1001	Bechtel	213-454-2200	213-454-2330	Bechtel	600 West 7th Street Los Ange	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
CH-0331	Cherokee Dune Company	305-555-6606	305-555-6633	Cherokee Dune Company	1400 West 133rd Street Los A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
CH-0302	J.P. Morgan Chase Bank	706-555-1232	715-216-5611	Chase Bank Cy Fall	1315 FM 1960 West Houston	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
CO-001	Coada Restaurant	981-437-2883	981-437-42	Coada Restaurant	817 South Olive Street Los An	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
CO-001	Dated Restaurant	213-454-6171	213-895-6171	Dated Restaurant	408 South Figueroa Road Los An	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
CO-001	Diva Design	325-255-2000	325-285-2000	Diva Design	2107 West 80th Street Los An	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
DR-001	Dr. Sidney Link	619-415-4963	649-615-4533	Dr. Sidney Link	8006 University Square Middls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
EN-001	Enxool	660-655-6902	660-655-6902	Enxool	6006 Cornerstone Court San Di	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
FR-001	Fire Walkers	866-889-3888	866-889-3888	Fire Walkers	4211 Parkview Drive San Di	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
FI-1001	Fireaxe Elix	888-233-4881	888-233-2581	Fireaxe Elix	9215 Garden House Building 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
GE-1001	Gefar Gemma	213-215-1125	213-215-1125	Gefar Gemma	4417 South Figueroa Road Los An	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
GH-001	GHS Management Services	817-555-4646	666-727-4510	Selby Halls	126 Deanshale Blvd San Diego	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
GH-001	GHS Management Services	866-848-2733	666-727-4510	New Century Mortgage	13856 Evering Way San Diego	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
GH-001	GHS Management Services	866-727-1010	866-727-1210	GHS Management Services	1977 Olympic Plaza San Diego	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
GH-001	GHS Management Services	819-681-4882	866-727-1210	San Juan Library	2804 South 94th Street San Di	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL

```
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mygrid.setColSorting("int,str"); //set sorting  
mygrid.init();//initialize grid  
mygrid.setSkin("dhx_skyblue"); //set grid skin
```

CUSTOMER ACCOUNT	CUSTOMER NAME	LOCATION PHONE	CUSTOMER PHONE	LOCATION NAME	LOCATION ADDRESS	LOCATION DORMANT	LOCATION CLOSED	ON HOLD	SERVICE DEPARTMENT
AAN001	A and H Supply	312-748-8626	213-748-8626	A and H Management	210 East Olympic Avenue Sui	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
AER001	Aerospace Corporation	818-569-1245	818-569-1245	Aerospace Corporation	555 Fifth Avenue Los Angeles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
APE001	Apex Design Builders	323-489-1626	323-489-1626	APEX Design Builders	6200 Wilshire Boulevard Los A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
BEC001	Bechtel	213-864-2356	213-846-2356	Bechtel	600 West 7th Street Los Ange	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
Cha001	Charles Dunn Company	323-566-8608	323-566-8608	Charles Dunn Company	1930 West 130th Street Los A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
CHA002	J P Morgan Chase Bank	724-555-1212	713-216-5611	Chase Bank Cy Fair	1313 FM 1960 West Houston	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
CIC001	Cicada Restaurant	561-437-2683	561-437-26	Cicada Restaurant	817 South Olive Street Los An	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
CUI001	Cuidad Restaurant	213-864-5171	213-865-5171	Cuidad Restaurant	445 South Figero Road Los Ar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
DIV001	Diva Designs	323-295-2000	323-295-2000	Diva Designs	2107 West 96th Street Los An	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
DRL001	Dr Sidney Lewis	619-615-1953	619-615-1953	Dr Sidney Lewis	8928 University Square Medici	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
ENC001	Encad	650-655-5902	650-655-5902	Encad	6059 Cornerstone Court San D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
FIR001	Fire Masters	858-569-3888	858-569-3888	Fire Masters	4217 Ponderosa Drive San Die	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
FIT001	Fitness Elite	858-393-0561	858-393-0561	Fitness Elite	9375 Custom House Building 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
GER001	Gerber Garments	213-215-1125	213-215-1125	Gerber Garment	447 South Figero Road Los Ar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
GHS001	GHS Managment Services	917-555-4848	858-727-1010	Sallys Nails	125 Oceanside Blvd San Dieg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
GHS001	GHS Managment Services	858-848-2733	858-727-1010	New Century Mortgage	13250 Evening Way San Dieg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
GHS001	GHS Managment Services	858-727-1010	858-727-1010	GHS Management Services	1977 Gillette Road San Diego	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL
GHS001	GHS Managment Services	619-661-4582	858-727-1010	Oak Park Library	2804 South 54th Street San Di	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOCAL

```
ct('gridbox');
```

```
ase/imgs/");
```

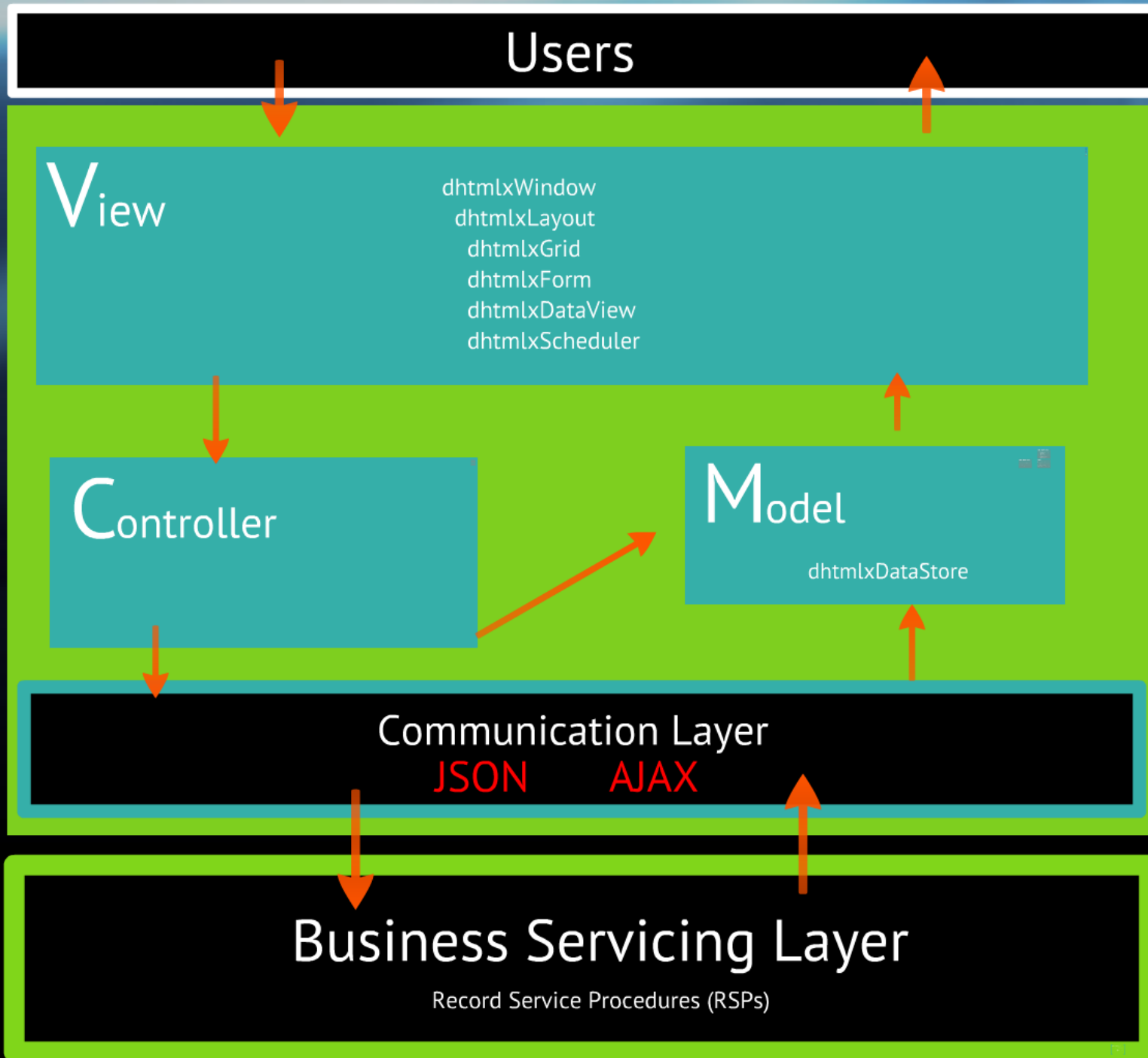
```
//path to images required by grid
```

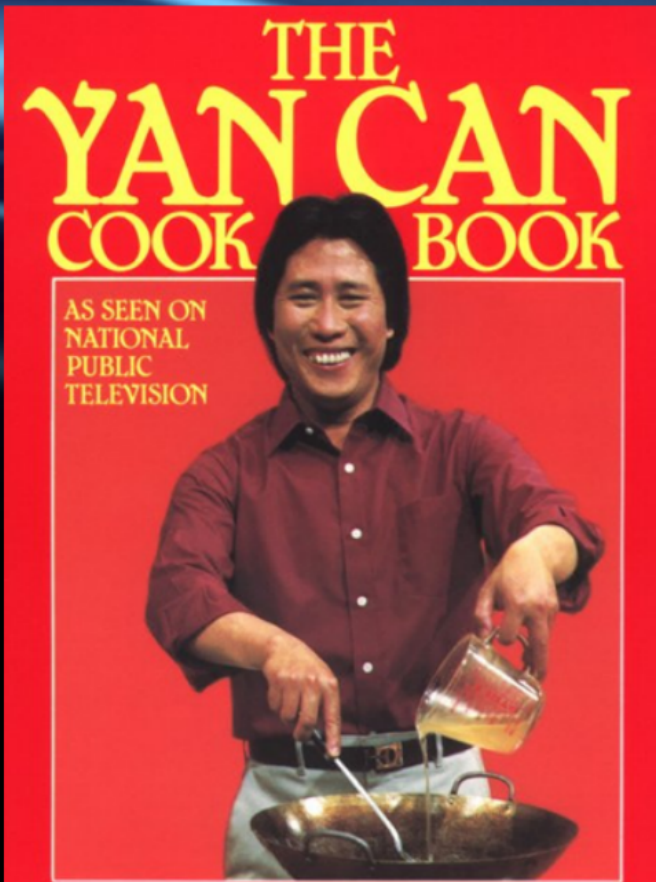

View

dhtmlxGrid

CUSTOMER ACCOUNT	CUSTOMER NAME	LOCATION PHONE	CUSTOMER PHONE	LOCATION NAME	LOCATION ADDRESS	LOCATION DOMAINS	LOCATION CLOSED	ON HOLD	SERVICE DEPARTMENT
MAN01	Academy Supply	212-249-8606	212-769-8929	Academy Management	270 East Orange Street Rd	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
AS-1001	Aerospac Corporation	818-889-1245	818-889-1245	Aerospac Corporation	325 16th Avenue Los Angeles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
AP1001	Acad. Design Builders	325-489-1028	325-489-1028	APTX Design Builders	6200 White Oakwood Lane #	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
BD1001	Bechtel	213-454-2200	213-454-2330	Bechtel	600 West 7th Street Los Ange	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
CH-101	Cherokee Dune Company	305-555-6606	305-555-6633	Cherokee Dune Company	1400 West 133rd Street Los A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
CH-1002	J.P. Morgan Chase Bank	706-555-1232	715-216-5611	Chase Bank Cy Fall	1315 FM 1960 West Houston	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
CO-1001	Coada Restaurant	981-437-2883	981-437-42	Coada Restaurant	817 South Olive Street Los An	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
CO-1001	Dated Restaurant	213-454-6171	213-895-6171	Dated Restaurant	408 South Figueroa Road Los A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
CO-1001	Diva Design	325-255-2000	325-285-2000	Diva Design	2107 West 80th Street Los An	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
DR-1001	Dr. Sidney Lank	619-415-4963	649-615-4533	Dr. Sidney Lank	8006 University Square Middls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
EN-1001	Enxool	660-655-6902	660-666-5922	Enxool	6006 Cornerstone Court San E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
FR-1001	Fire Walkers	866-889-3888	866-889-3888	Fire Walkers	4211 Parkview Drive San Di	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
FR-1001	Fireaxe Elix	888-233-4881	888-233-2581	Fireaxe Elix	9275 Dutton House Building 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
GE-1001	Gefar Gemma	213-215-1125	213-215-1125	Gefar Gemma	4417 South Figueroa Road Los A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
GH-1001	GHS Management Services	817-555-4646	666-727-1210	Sallye Halls	126 Deanshale Blvd San Diego	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
GH-1001	GHS Management Services	866-848-2733	666-727-1210	New Century Mortgage	13856 Evering Way San Diego	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
GH-1001	GHS Management Services	866-727-1010	866-727-1210	GHS Management Services	1977 O'Brien Road San Diego	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL
GH-1001	GHS Management Services	819-681-4882	866-727-1210	Opti Plan Library	2804 South 94th Street San D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BDICAL

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Yan Can Cook

If Yan can cook, so can you!



PROGRESS
EXCHANGE 2013

DISCOVER. DEVELOP. DELIVER.

Think Web



coins

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EXCHANGE 2013

DISCOVER. DEVELOP. DELIVER.

Think RIA



DISCOVER. DEVELOP. DELIVER.

Think Mobile



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JavaScript Framework



coins

PROGRESS
EXCHANGE 2013

DISCOVER. DEVELOP. DELIVER.

Think of the architecture of the client as much as you
do of the architecture on the server



What did we learn?

Things have moved on from last year

- Use out-of-box MVC - Backbone JS
- Mobile & Desktop on same codebase



Question and Answers



DISCOVER. DEVELOP. DELIVER.